

ABSTRACT OF THE DISCLOSURE

A method for powering one or more touch input devices on a touch screen employs an EM standing wave propagating through a conductive surface layer of the touch screen to deliver power to the input devices without resorting to
5 tether wires for any purpose. The input devices emit CDMA signals that are received by corner sensors in contact with the conductive layer and processed to detect, identify and locate the input devices. The EM standing wave is also used as a signaling medium to transmit multiple CDMA coded signals, and a
10 synchronizing signal sent through the EM standing wave may control the timing of coded signals transmitted from the touch screen input devices to manage multiple device signals.